

Serial No. 10/620,590
Amdt. Dated September 15, 2004
Reply to Office Action of June 15, 2004

Docket No. P-0520

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-8. (Cancelled)

9. (Currently Amended) A mode switch ~~of for~~ a video cassette recorder (VCR), comprising:

a main printed circuit board ~~having comprising~~ a contact point mode pattern exposed on an upper surface thereof;

a plurality of brushes mounted on the main printed circuit board, ~~wherein the brushes are and positioned over the contact point mode pattern, and wherein the plurality of brushes can~~ ~~are configured to be deflected so as to contact the contact point mode pattern; and~~

~~a rotor rotatably mounted installed on the main printed circuit board and having, the rotor comprising~~ a plurality of protrusions configured to deflect the plurality of brushes, ~~wherein the protrusions are patterned such that different combinations of the brushes are deflected depending on the rotational orientation of the rotor.~~

10. (Currently Amended) The mode switch of claim 9, wherein the rotor is configured to be engaged to a moving part of the VCR ~~rotate in response to a driving force such~~

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that the rotor is rotated to different orientations ~~depending on the~~based on an operating mode of the VCR.

11. (Original) The mode switch of claim 9, wherein the plurality of brushes are all electrically coupled to one another.

12. (Currently Amended) The mode switch of claim 9, wherein the main printed circuit board further comprises an engaging hole ~~is formed on the main printed circuit board~~therein, and wherein the rotor ~~includes~~further comprises at least one engaging hook configured to engage the engaging hole so as to rotatably mountinstall the rotor on the main printed circuit board.

13. (Original) The mode switch of claim 9, wherein the contact point mode pattern comprises a plurality of concentric rings of conductive patterns formed on the upper surface of the main printed circuit board.

14. (Currently Amended) The mode switch of claim 13, wherein the each of the plurality of brushes corresponds to a different concentric ring of the plurality of concentric rings of conductive patterns.

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15. (New) The mode switch of claim 9, wherein the plurality of protrusions are configured to selectively deflect the plurality of brushes based on a rotational orientation of the rotor.

16. (New) The mode switch of claim 9, wherein the main printed circuit board further comprises an engaging hole and a contactor portion provided in the engaging hole, wherein each of the plurality of brushes extends outward from the contactor portion of the main printed circuit board and over the contact point mode pattern.

17. (New) The mode switch of claim 16, wherein the rotor further comprises at least one engaging hook configured to engage the engaging hole, and wherein the contactor portion of the main printed circuit board is disposed between the engaging hole and the engaging hook when the rotor and the main printed circuit board are engaged.

18. (New) A mode switch for a video cassette recorder (VCR), comprising:
a main printed circuit board comprising an engaging hole and a contact point mode pattern exposed on an upper surface thereof;
a contactor positioned within the engaging hole of the main printed circuit board, said contactor comprising a plurality of brushes mounted on the main printed circuit board and a

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flange configured to abut an upper surface of the main printed circuit board, wherein the plurality of brushes are positioned over the contact point mode pattern, and wherein the brushes are configured to be deflected so as to contact the contact point mode pattern; and

a rotor rotatably mounted on the main printed circuit board and comprising a plurality of protrusions configured to deflect the plurality of brushes, wherein the plurality of protrusions are patterned such that different combinations of the plurality of brushes are deflected based on a rotational orientation of the rotor.

19. (New) The mode switch of claim 18, wherein the contactor further comprises a through hole, and wherein the rotor comprises at least one engaging hook configured to engage the through hole so as to rotatably mount the rotor on the main printed circuit board.

20. (New) The mode switch of claim 18, wherein the plurality of brushes project from side portions of the contactor.

21. (New) A mode switch for a video cassette recorder (VCR), comprising:
a main printed circuit board comprising an engaging hole formed therethrough and a contact point mode pattern exposed on an upper surface thereof;
a contactor positioned within the engaging hole of the main printed circuit board, said contactor comprising a plurality of brushes mounted on the main printed circuit board and

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positioned over the contact point mode pattern, wherein the plurality of brushes are configured to be deflected so as to contact the contact point mode pattern; and

 a rotor comprising at least one engaging hook configured to engage a corresponding engaging hole formed in the main printed circuit board so as to rotatably mount the rotor on the contactor, and a plurality of protrusions configured to deflect the brushes when the rotor and the contactor are engaged.

22. (New) The mode switch of claim 21, wherein the contactor further comprises a flange configured to abut an upper surface of the main printed circuit board.

23. (New) The mode switch of claim 21, wherein the plurality of brushes are configured to project from side portions of the contactor.

24. (New) The mode switch of claim 21, wherein the plurality of protrusions are configured to selectively deflect the plurality of brushes based on a rotational orientation of the rotor.

25. (New) The mode switch of claim 21, wherein the plurality of brushes are electrically coupled to one another.